

# CEMENT JOB REPORT



CUSTOMER WHITING OIL & GAS CORP XM	DATE 09-JUL-15	F.R. # 10011164575	SERV. SUPV. Daniel F Kuenz
LEASE & WELL NAME RAZOR FED #30K-3108 - API 05123402150000	LOCATION NESW Sec 30-10N-58W		COUNTY-PARISH-BLOCK Weld Colorado
DISTRICT Brighton	DRILLING CONTRACTOR RIG # UNIT 406	TYPE OF JOB Liner	

SIZE & TYPE OF PLUGS	LIST-CSG-HARDWARE	MECHANICAL BARRIERS	MD	TVD	HANGER TYPES	MD	TVD
Dart For Plug Catcher, 4-1/2 In	Float Collar, Pop Valve, 4-1/2 - 8rd				Liner	5493	5493
	Float Shoe 4-1/2 - 8rd						
	Stop Collar, 4-1/2 in						
	Centralizer, with Pins, 4-1/2 in						
	Thread Locking Compound						

MATERIALS FURNISHED BY BJ	LAB REPORT NO.	PHYSICAL SLURRY PROPERTIES						
		SACKS OF CEMENT	SLURRY WGT PPG	SLURRY YLD FT <sup>3</sup>	WATER GPS	PUMP TIME HR:MIN	Bbl SLURRY	Bbl MIX WATER
Fresh Water w/ Dye	C07-009-15		8.34				10	
Ultra Flush II		30	12	3.77	24.34		20	17.26
50:50Poz:G+.2%R3+.2%CD32+.6%FL52+.1%SMS	C07-009-15	667	14.5	1.21	5.26	10:08	143.7	83.51
+2%FL63+3%Gel+.01gpsFP6L	C07-009-15		14.5				0	
2% KCl Water			8.4				163.6	
2% KCl Water, Roll Hole			8.4				137	
Available Mix Water <u>300</u> Bbl.		Available Displ. Fluid <u>300</u> Bbl.		TOTAL			474.3	100.77

HOLE			TBG-CSG-D.P.							COLLAR DEPTHS		
SIZE	% EXCESS	DEPTH	ID	OD	WGT.	TYPE	MD	TVD	GRADE	SHOE	FLOAT	STAGE
6.125	0	13750	3.34	4	14	DP	5474	5474	S-135	13743	13698	1
			4	4.5	11.6	CSG	13743	6113	P-110			
			2.563	4	29	DP			S-135			

LAST CASING				PKR-CMT RET-BR PL-LINER				PERF. DEPTH			TOP CONN		WELL FLUID	
ID	OD	WGT	TYPE	MD	TVD	BRAND & TYPE		DEPTH	TOP	BTM	SIZE	THREAD	TYPE	WGT.
6.2	7	29	CSG	6487	6113	Liner		5493	0	0	2	1502	WATER BASED	9.8

DISPL. VOLUME		DISPL. FLUID		CAL. PSI	CAL. MAX PSI	OP. MAX	MAX TBG PSI		MAX CSG PSI		MIX WATER
VOLUME	UOM	TYPE	WGT.	BUMP PLUG	TO REV.	SQ. PSI	RATED	Operator	RATED	Operator	
163.6	BBLS	2% KCl Water	8.4	1269	0	0	0	0	10690	8552	Rig Tanks
		2% KCl Water, Roll H	8.4								

Circulation Prior to Job																			
Circulated Well: Rig <input checked="" type="checkbox"/> BJ <input type="checkbox"/>					Circulation Time: 4					Circulation Rate: 4 BPM									
Mud Density In: 9.8 LBS/GAL					Mud Density Out: 9.8 LBS/GAL					PV & YP Mud In: 9					PV & YP Mud Out: 9				
Gas Present: NO <input checked="" type="checkbox"/> YES <input type="checkbox"/>					Units:					Solids Present at End of Circulation: NO <input checked="" type="checkbox"/> YES <input type="checkbox"/>									

Displacement And Mud Removal														
Displaced By: Rig <input type="checkbox"/> BJ <input checked="" type="checkbox"/>					Amount Bled Back After Job: 1.5 BBLS									
Returns During Job: <input type="checkbox"/> NONE <input type="checkbox"/> PARTIAL <input checked="" type="checkbox"/> FULL					Method Used to Verify Returns: Visual									
Cement Returns at Surface: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO					Were Returns Planned at Surface: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES									
Pipe Movement: <input type="checkbox"/> ROTATION <input type="checkbox"/> RECIPROICATION <input checked="" type="checkbox"/> NONE <input type="checkbox"/> UNABLE DUE TO STUCK PIPE														
Centralizers: <input type="checkbox"/> NO <input checked="" type="checkbox"/> YES					Quantity: 104					Type: <input type="checkbox"/> BOW <input type="checkbox"/> RIGID				
Job Pumped Through: <input type="checkbox"/> CHOKE MANIFOLD <input type="checkbox"/> SQUEEZE MANIFOLD <input type="checkbox"/> MANIFOLD <input checked="" type="checkbox"/> NO MANIFOLD														

Plugs																			
Number of Attempts by BJ: 0					Competition: 0					Wiper Balls Used: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES					Quantity:				
Plug Catcher Used: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES					Parabow Used: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES														
Was There a Bottom: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES					Top of Plug: 0 FT					Bottom of Plug: 0 FT									

**EXPLANATION: TROUBLE SETTING TOOL, RUNNING CSG, ETC. PRIOR TO CEMENTING:** Rig running into hole with drillpipe when we arrived on location. Approx 300' left to run. Short minimum of 143sks of cement, 160sks cement had to be sent out.

# CEMENT JOB REPORT



## Squeezes (Update Original Treatment Report for Primary Job)

BLOCK SQUEEZE  SHOE SQUEEZE  TOP OF LINER SQUEEZE  PLANNED  UNPLANNED   
 Liner Packer:  NO  YES Bond Log:  NO  YES PSI Applied: 0 Fluid Weight: 0 LBS/GAL

## Casing Test (Update Original Treatment Report for Primary Job)

Casing Test Pressure: 2596 PSI With 9.8 LBS/GAL Mud Time Held: 00 Hours 05 Minutes

## Shoe Test (Update Original Treatment Report for Primary Job)

Depth Drilled out of Shoe: 0 FT Target EMW: 0 LBS/GAL Actual EMW: 0 LBS/GAL  
 Number of Times Tests Conducted: 0 Mud Weight When Test was Conducted: 0 LBS/GAL

Problems Before Job (I.E. Running Casing, Circulating Well, ETC)  
None

Problems During Job (I.E. Lost Returns, Equipment Failure, Bulk Delivery, Foaming, ETC)  
Knife Gate Stuck @ 50% 31 bbls into cement. Down 12min to get fixed

Problems After Job (I.E. Gas at Surface, Float Equipment Failed, ETC)  
None

### PRESSURE/RATE DETAIL

### EXPLANATION

TIME HR:MIN.	PRESSURE - PSI		RATE BPM	Bbl. FLUID PUMPED	FLUID TYPE	EXPLANATION	
	PIPE	ANNULUS				SAFETY MEETING: BJ CREW <input checked="" type="checkbox"/>	CO. REP. <input checked="" type="checkbox"/>
						TEST LINES	5132 PSI
						CIRCULATING WELL - RIG	<input checked="" type="checkbox"/> BJ <input type="checkbox"/>
06:00						YARD CALL	
07:15						PRE-JOB CONVOY SAFETY MEETING	
07:30						DEPART BHI YARD	
09:30						ARRIVE ON LOCATION	
09:35						CHECK IN WITH COMPANY MAN	
09:45						ALL EO'S OFF DUTY WELLSITE, RIG RUNNING DRILL PIPE	
10:45						ALL EO'S BACK ON DUTY	
10:46						SAFETY WALK AROUND ON LOCATION	
10:52						PRE-RIG UP SAFETY MEETING	
11:00						SPOT CEMENT EQUIPMENT ON LOCATION	
11:20						SHORTAGE OF CEMENT 143sks NOTED TO COMPANY MAN	
11:30						CALL TO YARD MADE FOR 160sks CEMENT TO BE LOADED	
12:00						CONTAINMENT POND ARRIVED ON LOCATION	
12:30	1169	0	4	960	WBM	CASING LANDED, RIG CIRCULATING	
13:00						ALL EO'S OFF DUTY WELLSITE, WAITING ON BULK CEMENT TO ARRIVE	
14:00						BULK TRUCK DEPARTED BHI YARD	
15:15						TOOL HAND CEMENT HEAD ADDED TO DRILL STRING	
15:25						DROP BALL	
15:30						PRIME UP CEMENT PUMP	
16:00						BULK TRUCK ARRIVED ON LOCATION	
16:10						SPOT BULK TRUCK, FINISH RIGGING UP	
16:42						RIG SETTING HANGER	
16:55						PRE-JOB SAFETY MEETING	
17:10						MAKE UP TOP CONNECTIONS TO WELLHEAD	
17:40	969	0	2.4	2	H2O	LOAD LINES, FRESH WATER SPACER	
17:43	5132	0	0	0	H2O	PRESSURE TEST HARD LINES	
17:49	960	0	2.4	8	H2O	FRESH WATER w/ DYE SPACER	
17:54	0	0	0	0	H2O	BATCH UP ULTRA FLUSH II SPACER 12#	
18:00	960	0	2.6	20	H2O	ULTRA FLUSH II SPACER @ 12#	
18:08	0	0	0	0	CEMENT	BATCH UP CEMENT SLURRY 14.5#	
18:16	1069	0	3.6	31	CEMENT	667sks (50:50)Poz:G @ 14.5# CEMENT SLURRY	

# CEMENT JOB REPORT



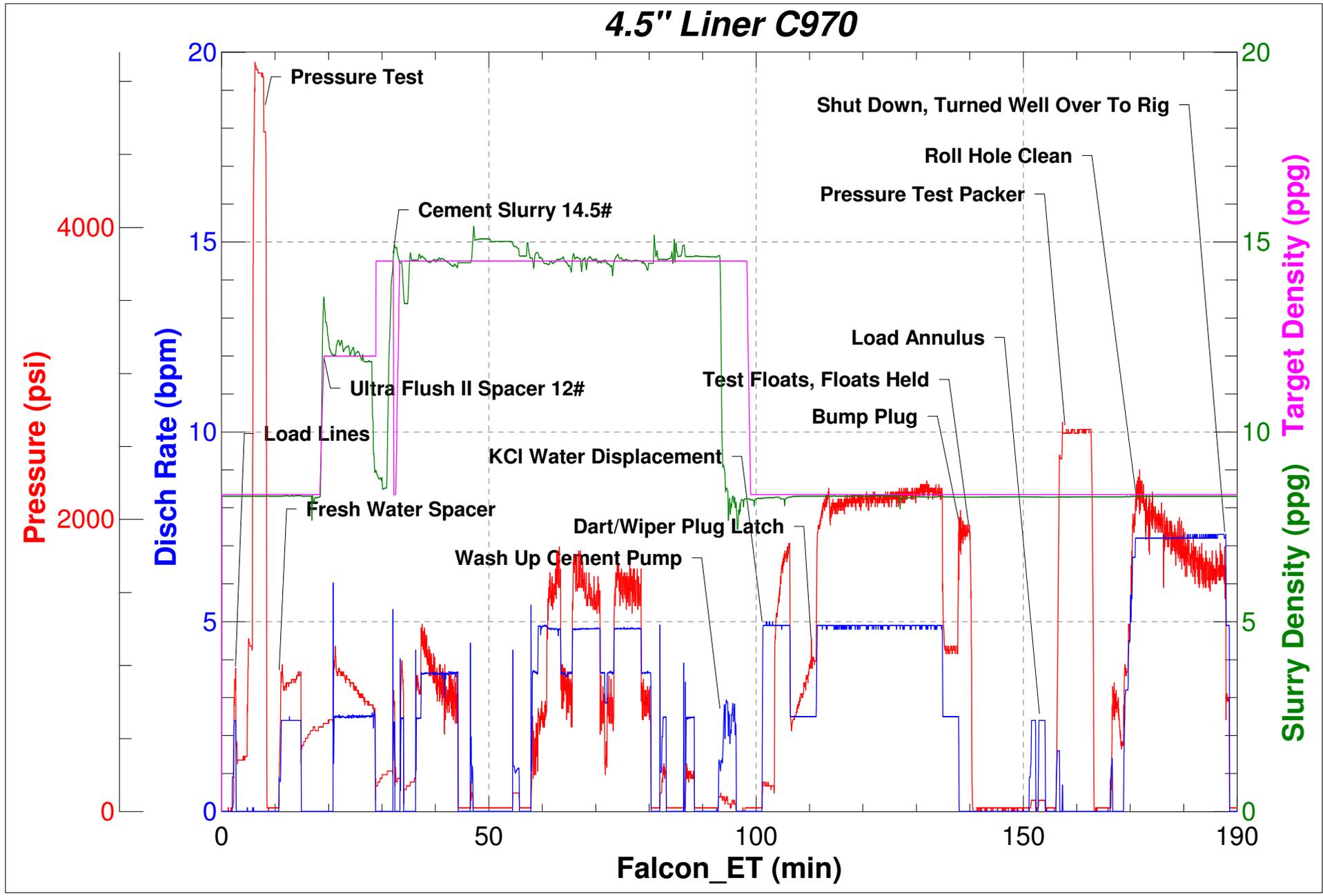
PRESSURE/RATE DETAIL						EXPLANATION	
TIME HR:MIN.	PRESSURE - PSI		RATE BPM	Bbl. FLUID PUMPED	FLUID TYPE	SAFETY MEETING: BJ CREW <input checked="" type="checkbox"/> CO. REP. <input checked="" type="checkbox"/>	
	PIPE	ANNULUS				TEST LINES 5132 PSI	
						CIRCULATING WELL - RIG <input checked="" type="checkbox"/> BJ <input type="checkbox"/>	
18:25	0	0	0	0	CEMENT	SHUT DOWN, KNIFE GATE STUCK @ 50%	
18:37	690	0	4.9	69	CEMENT	667sks (50:50)Poz:G @ 14.5# CEMENT SLURRY	
18:52	1496	0	4.9	43.7	CEMENT	667sks (50:50)Poz:G @ 14.5# CEMENT SLURRY	
19:06	0	0	0	0	CEMENT	SHUT DOWN, WASH UP CEMENT PUMP & HARD LINES TO CATCH TANK	
19:20	176	0	4.9	10	H2O	KCI WATER w/ SUGAR DISPLACEMENT	
19:22	496	0	4.9	15	H2O	KCI WATER DISPLACEMENT	
19:26	609	0	2.5	10	H2O	SLOW RATE KCI WATER DISPLACEMENT	
19:30	1200	0	2.5	1	H2O	DART/WIPER PLUG LATCH, TOOL HAND SAYS HE RECORDED 1727 psi	
19:31	1960	0	4.9	64	H2O	KCI WATER DISPLACEMENT	
19:44	2169	0	4.9	50	H2O	KCI WATER DISPLACEMENT	
19:55	1296	0	2.6	13.6	H2O	SLOW RATE, KCI WATER DISPLACEMENT	
19:57	2000	0	0	0	H2O	BUMP PLUG 700 psi OVER FINAL LIFT PRESSURE	
20:00	1969	0	0	0	H2O	TEST FLOATS, BLEED OFF PRESSURE	
20:01	0	0	0	0	H2O	FLOATS HELD, 1.5 bbls FLOWED BACK	
20:03	0	0	0	0	H2O	RIG SETTING PACKER	
20:10	69	0	2.4	5	H2O	ESTABLISH ANNULAR FLOW	
20:14	0	0	0	0	H2O	RIG CLOSING IN BACK SIDE	
20:15	2596	0	1.6	1	H2O	PRESSURE UP ON PACKER	
20:17	2596	0	0	0	H2O	HOLD PRESSURE 5 min	
20:22	2609	0	0	0	H2O	BLEED OFF PRESSURE	
20:26	800	0	.5	.5	H2O	PRESSURE UP ON DRILL PIPE STRING	
20:27	0	0	0	0	H2O	RIG STINGING OUT	
20:29	2113	0	6.9	137	H2O	ROLL HOLE CLEAN, KCI WATER DISPLACEMENT	
20:49	0	0	0	0	H2O	SHUT DOWN	
20:50						TURNED WELL BACK OVER TO RIG	
20:55						POST-JOB SAFETY MEETING, RIG DOWN	
						SOME ULTRA FLUSH BACK TO SURFACE	
						TOP OF CEMENT SLURRY @ APPROX 5494'	
						THANK YOU FOR YOUR SAFE WORK, GOOD COMMUNICATION & COOPERATION !!!!! DANIEL & THE CREW	
21:45						POST-JOB CONVOY SAFETY MEETING	
22:00						DEPARTED LOCATION	
23:59						ARRIVED BACK ON BHI YARD	

BUMPED PLUG	PSI TO BUMP PLUG	TEST FLOAT EQUIP.	BBL.CMT RETURNS/ REVERSED	TOTAL BBL. PUMPED	PSI LEFT ON CSG	SPOT TOP OUT CEMENT	Service Supervisor Signature:
<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	1960	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	0	474.3	0	Y <input checked="" type="checkbox"/> N	



### 4.5" Liner C970





FIELD RECEIPT NO. 10011164575

<b>CUSTOMER</b> WHITING OIL & GAS CORP XML					<b>CREDIT APPROVAL NO.</b>	<b>PURCHASE ORDER NO.</b>	<b>CUSTOMER NUMBER</b> 20096998 - 0040137279	<b>INVOICE NUMBER</b>			
<b>MAIL INVOICE TO</b>		<b>STREET OR BOX NUMBER</b> 1700 BROADWAY, SUITE 2300			<b>CITY</b> DENVER		<b>STATE</b> Colorado	<b>ZIP CODE</b> 80290-2300			
<b>DATE WORK COMPLETED</b>	<b>MO.</b> 07	<b>DAY</b> 09	<b>YEAR</b> 2015	<b>BHI REPRESENTATIVE</b> Daniel F Kuenz		<b>WELL API NO:</b> 05123402150000	<b>WELL TYPE :</b> New Well				
<b>DISTRICT</b> PP, BRIGHTON					<b>JOB DEPTH (ft)</b> 13,743		<b>WELL CLASS :</b> Oil				
<b>WELL NAME AND NUMBER</b> RAZOR FED #30K-3108					<b>TD WELL DEPTH (ft)</b> 13,750		<b>GAS USED ON JOB :</b> No Gas				
<b>WELL LOCATION :</b>		<b>LEGAL DESCRIPTION</b> 30-10N-58W			<b>COUNTY/PARISH</b> Weld	<b>STATE</b> Colorado	<b>JOB TYPE CODE :</b> Liner				
PRODUCT CODE	DESCRIPTION				UNIT OF MEASURE	QUANTITY	LIST PRICE UNIT	GROSS AMOUNT	% DISC.	NET AMOUNT	
100021	Class G Cement				sacks	334	31.800	10,621.20	75%	2,655.30	
100275	Sodium Metasilicate				lbs	57	4.100	233.70	82%	42.07	
100283	R-3				lbs	113	3.840	433.92	82%	78.11	
100316	Barite, Bulk				lbs	4200	0.630	2,646.00	80%	529.20	
100317	Poz (Fly Ash)				sacks	334	14.200	4,742.80	75%	1,185.70	
398117	Ultra Flush II System				bbbls	20	213.500	4,270.00	90%	427.00	
488013	CD-32				lbs	113	13.300	1,502.90	82%	270.52	
488015	FL-52				lbs	337	26.900	9,065.30	82%	1,631.75	
488019	FP-6L				gals	2	104.250	208.50	75%	52.13	
488449	Bentonite II				lbs	1682	0.440	740.08	82%	133.21	
499632	Granulated Sugar				lbs	100	3.840	384.00	75%	96.00	
499767	FL-63				lbs	113	72.000	8,136.00	82%	1,464.48	
SUB-TOTAL FOR Product Material								42,984.40	80.07%	8,565.47	
<b>ARRIVE LOCATION :</b>	<b>MO.</b> 07	<b>DAY</b> 09	<b>YEAR</b> 2015	<b>TIME</b> 09:30	<b>SERVICE ORDER: I AUTHORIZE WORK TO BEGIN PER SERVICE INSTRUCTIONS IN ACCORDANCE WITH THE TERMS AND CONDITIONS PRINTED ON THE LAST PAGE OF THIS FORM AND REPRESENT THAT I HAVE AUTHORITY TO ACCEPT AND SIGN THIS ORDER.</b>				<b>SERVICE RECEIPT: I CERTIFY THAT THE MATERIALS AND SERVICES LISTED WERE RECEIVED AND ALL SERVICES PERFORMED IN A WORKMANLIKE MANNER.</b>		
<b>CUSTOMER REP.</b> Chris Boldgett, Kevin Mosley					<b>CUSTOMER AUTHORIZED AGENT</b>  <b>CUSTOMER AUTHORIZED AGENT</b>				<b>X</b>		
<b>SEE LAST PAGE FOR GENERAL TERMS AND CONDITIONS</b>									<b>X</b>		



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<b>DATE WORK COMPLETED</b>	<b>MO.</b> 07	<b>DAY</b> 09	<b>YEAR</b> 2015	<b>BHI REPRESENTATIVE</b> Daniel F Kuenz	<b>WELL API NO:</b> 05123402150000	<b>WELL TYPE :</b> New Well				
<b>DISTRICT</b> PP, BRIGHTON					<b>JOB DEPTH (ft)</b> 13,743	<b>WELL CLASS :</b> Oil				
<b>WELL NAME AND NUMBER</b> RAZOR FED #30K-3108					<b>TD WELL DEPTH (ft)</b> 13,750	<b>GAS USED ON JOB :</b> No Gas				
<b>WELL LOCATION :</b>		<b>LEGAL DESCRIPTION</b> 30-10N-58W			<b>COUNTY/PARISH</b> Weld	<b>STATE</b> Colorado	<b>JOB TYPE CODE :</b> Liner			
<b>PRODUCT CODE</b>	<b>DESCRIPTION</b>				<b>UNIT OF MEASURE</b>	<b>QUANTITY</b>	<b>LIST PRICE UNIT</b>	<b>GROSS AMOUNT</b>	<b>% DISC.</b>	<b>NET AMOUNT</b>
H9985	Additional Hours				ea	4	750.000	3,000.00	100%	0.00
H9985	Additional Mileage 105miles One Way				ea	1	700.000	700.00	0%	700.00
VP001	Cement Svcs Lin Equip-100miles or less				ea	1	15,750.000	15,750.00	0%	15,750.00
	SUB-TOTAL FOR Equipment							19,450.00	15.42%	16,450.00
	FIELD ESTIMATE							62,434.40	59.93%	25,015.47
<b>ARRIVE LOCATION :</b>	<b>MO.</b> 07	<b>DAY</b> 09	<b>YEAR</b> 2015	<b>TIME</b> 09:30	<b>SERVICE ORDER: I AUTHORIZE WORK TO BEGIN PER SERVICE INSTRUCTIONS IN ACCORDANCE WITH THE TERMS AND CONDITIONS PRINTED ON THE LAST PAGE OF THIS FORM AND REPRESENT THAT I HAVE AUTHORITY TO ACCEPT AND SIGN THIS ORDER.</b>				<b>SERVICE RECEIPT: I CERTIFY THAT THE MATERIALS AND SERVICES LISTED WERE RECEIVED AND ALL SERVICES PERFORMED IN A WORKMANLIKE MANNER.</b>	
<b>CUSTOMER REP.</b> Chris Boldgett, Kevin Mosley					<b>CUSTOMER AUTHORIZED AGENT</b>  <b>CUSTOMER AUTHORIZED AGENT</b>				<b>CUSTOMER AUTHORIZED AGENT</b> X	
<b>SEE LAST PAGE FOR GENERAL TERMS AND CONDITIONS</b>									<b>BHI APPROVED</b> X	